



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/604,269

07/08/2003

Ivan Yang-En Wu

7638-US-PA

1268

31561

7590

10/26/2004

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE
7 FLOOR-1, NO. 100
ROOSEVELT ROAD, SECTION 2
TAIPEI, 100
TAIWAN

EXAMINER

NGUYEN, THANH NHAN P

ART UNIT

PAPER NUMBER

2871

DATE MAILED: 10/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	10/604,269		WU ET AL.	
	Examiner		Art Unit	
	(Nancy) Thanh-Nhan P Nguyen		2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is, closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7-9 and 17-19 is/are allowed.
- 6) ☒ Claim(s) 1-6, 10-16, 20 and 21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 July 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "The organic light emitting diode **402**", [see paragraph 0039]. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:

Paragraph [0027] presently read as "The thin-film transistor substrate *110*" which the examiner suggests it should be written to "The thin-film transistor substrate *116*".

Appropriate correction is required.

Paragraph [0029] presently read as "the light-emitting structure *110*" which the examiner suggests it should be written to "the light-emitting structure *101*".

Appropriate correction is required.

Paragraph [0033] presently read as "As shown in *Figure 3*, the regional light source 108" which the examiner suggests it should be written to "As shown in *Figure 3*, the regional light source 208".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 10-16, 20-21 are rejected under 305 U.S.C 102(b) as being anticipated by Fujieda U.S. Patent No. 6,781,647.

Referring to claim 1, Fujieda discloses a reflective liquid crystal display comprising a liquid crystal display panel (20), having a plurality of pixels, wherein each pixel has a plurality of color blocks; and a regional light source (10) over the liquid crystal display panel to radiate directly thereon, [see figure 2B, and figure 3].

Referring to claim 2, Fujieda discloses the regional light source comprising a substrate (11); and a light-emitting structure (12,13,14) on one side of the substrate, [see figure 2B].

Referring to claims 3-4, Fujieda discloses the light-emitting structure is disposed on the side of the liquid crystal display panel facing / distal to the liquid crystal display panel, [see figure 2B].

Referring to claim 5, Fujieda discloses the light-emitting structure includes an organic light emitting diode, [see column 4, lines 49-50].

Referring to claim 6, Fujieda discloses the light-emitting structure comprising a cathode; an anode, under the cathode at the side facing the liquid crystal display panel; and a luminescent layer, between the cathode and the anode, [see figure 2B, elements 12,13,14].

Referring to claim 10, Fujieda discloses the liquid crystal display panel comprising a color filter (26); a polarizer (29) on the color filter; a thin-film transistor substrate (21) without direct contact to the color filter; a reflection layer (22), formed on the thin-film transistor substrate; and a liquid crystal layer (24), filled between the color filter and the thin-film transistor substrate, [see figure 2B].

Referring to claim 11, Fujieda discloses the regional light source is directly mounted to the polarizer, [see column 5, lines 26-30].

Claim 12 is met the discussion regarding claims 1, 5 rejection above.

Claim 13 is met the discussion regarding claims 1-2, 5 rejection above.

Claim 14 is met the discussion regarding claims 1, 3, 5 rejection above.

Claim 15 is met the discussion regarding claims 1, 4, 5 rejection above.

Claim 16 is met the discussion regarding claims 1, 5-6 rejection above.

Claim 20 is met the discussion regarding claims 1, 5, 10 rejection above.

Claim 21 is met the discussion regarding claims 1, 5, 11 rejection above.

Allowable Subject Matter

Claims 7-9, 17-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: None of prior art taught or disclosed: the light-emitting structure includes a **plurality of spots scattered over each of the color blocks**; the light-emitting structure is **disposed across at least two of the color blocks**; the regional light source is **located at an edge of each of the color blocks**.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fujieda U.S. Patent No. 6,781,647 discloses the reflective liquid crystal display having front light, in which light-emitting structure includes an organic light emitting

Art Unit: 2871

diode, and the light-emitting structure could be placed on one side of the substrate / facing the liquid crystal panel / distal to the liquid crystal display panel. Fujieda also discloses the front light can be mounted directly to the polarizer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on M-F/9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

(Nancy) Thanh-Nhan P Nguyen
Examiner
Art Unit 2871



KENNETH PARKER
PRIMARY EXAMINER